

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
19 May 2005 (19.05.2005)

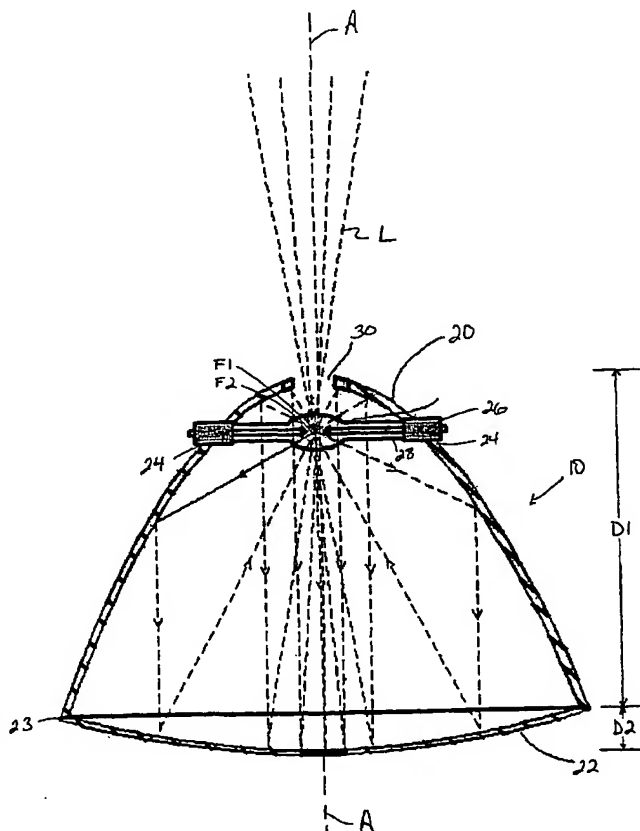
PCT

(10) International Publication Number  
**WO 2005/045310 A3**

- (51) International Patent Classification<sup>7</sup>: **F21V 7/09**, H01J 61/40
- (21) International Application Number: PCT/US2004/035653
- (22) International Filing Date: 27 October 2004 (27.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/514,725 27 October 2003 (27.10.2003) US
- (71) Applicant and  
(72) Inventor: WIMBERLY, Randal, L. [US/US]; 905 Tyree Road, Paducah, KY 42003 (US).
- (74) Agents: SCHICKLI, Warren, D. et al.; King & Schickli PLLC, 247 North Broadway, Lexington, KY 40507 (US).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: DUAL REFLECTOR SYSTEM



(57) Abstract: A dual reflector system includes a first reflector (20) defining a first depth (D1) and a first focal point (F1) and a second reflector (22) defining a second depth (D2) and a second focal point (F2). The second depth is less than the first depth. The first and second reflectors are shaped and/or positioned such that the first reflector focal point is substantially the same as the second reflector focal point.



**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(88) Date of publication of the international search report:**

18 August 2005